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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/870,319	05/30/2001	Debasish Banerjee	ROC920010082US1	7641
46797 7590 01/09/2008 IBM CORPORATION, INTELLECTUAL PROPERTY LAW DEPT 917, BLDG. 006-1 3605 HIGHWAY 52 NORTH ROCHESTER, MN 55901-7829			EXAMINER BAYARD, DJENANE M	
			ART UNIT 2141	PAPER NUMBER
			MAIL DATE 01/09/2008	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

09/870,319

Applicant(s)

BANERJEE ET AL.

Examiner

Djenane M. Bayard

Art Unit

2141

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 24 October 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 10-20, 33-42, 45-47, 50 and 51 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 10-20, 33-42, 45-47, 50-51 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date: _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date: _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This is in response to communication filed on 3/28/07 in which claims 10-20, 33-42, 45-47 and 50-51 are pending.

Response to Arguments

2. Applicant's arguments filed on 10/24/07 have been fully considered but they are not persuasive. Applicant argues that Zhou in view of DellaFera do not teach a method that includes both a step of receiving a first request from a client, where the first request is a request from the client and where the second request comprises internationalization context for processing the first request. However, Zhou teaches wherein to illustrate the functionality of the resource bundle manager 602, suppose that a user who is attempting to logon to the server application resides in a locale that speaks a United States version of English. The logic layer 204 (FIG. 2) receives the request and prepares to return a reply in the form of a login screen 406 (FIG. 4). The logic layer 204 submits the identity of the locale and transfers control to the resource bundle manager 602 of the resource coordination layer to obtain the appropriate login screen for that locale. The resource bundle manager 602 takes the locale-independent document 426 produced by the internationalization compiler 402 and executes the function calls in the source code (i.e., flow path 604). In the illustrated example, the resource bundle manager 602 executes the "RBRGet" function call, passing in parameters including a locale identity of "en_US" and a text identity of "Login". The resource bundle manager 602 uses the locale identity parameter to access the appropriate resource bundle repository that contains the resource bundle 422 for "localeID=en_US" (i.e., flow paths 606 and 608). At this point, the text identity is used to index

to the appropriate text string for "textID=Login" (i.e., flow path 610). The English text string "Please Log In" is returned to the resource bundle manager 602 (i.e., flow path 612) and inserted into the document core, thereby producing the locale-specific document 408 (i.e., flow path 614) (See paragraph [0095-0096]). Furthermore, Applicant is reminded that a recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim.

Claim Rejections - 35 USC § 101

3. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

4. Claims 33-42 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. They are neither computer components nor statutory processes, as they are not "acts" being performed. Such claimed computer programs do not define any structural and functional interrelationships between the computer program and other claimed elements of a computer which permit the computer program's functionality to be realized. In contrast, a claimed recordable type media (as specified in the specification on paragraph [0037]) encoded with a computer program is a recordable type media element which defines structural and functional interrelationships between the computer program and the rest of the recordable

type media which permit the computer program's functionality to be realized, and is thus statutory. See Lowry, 32 F.3d at 1583-84, 32 USPQ2d at 1035

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 10-14, 17, 33-37, 40, 45, 47, 50-51 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent Application No. 2002/0162093 to Zhou et al in view of U.S. patent Application No. 5,404,523 to DellaFera et al.

a. As per claims 10 and 33, Zhou et al teaches a method operative in a distributed computing environment having clients and a plurality of servers located across geographically dispersed boundaries (See page 2, paragraph [0017], [0025], and [0062]). Furthermore, Zhou et al teaches receiving, at a server, a first request from a client, wherein the first request is a request to invoke a remote procedure call at the server (See 6, paragraph [0065-0074] *web page is served and rendered after user's request*); receiving, at the server, a second request from the client, wherein the second request comprises an internationalization context for processing the first

request (See page 6, paragraph [0066], *user enters login, password information*), wherein the internationalization context specifies geographically specific parameters set for the client (See page 6, paragraph [0074]; extracting the internationalization context from the second request (See page 6, paragraph [0074], *the compiler extracts the locale-specific elements*); processing the first request at the server using the internationalization context (See page 6, paragraph [0074, 0077], *replaces the extracted elements in the web page with function calls to the resource bundle*); attaching the internationalization context to the first request (See page 6, paragraph [0066-0074]; Furthermore, Zhou et al teaches wherein the resources may reside with the server system or located remotely. However, Zhou et al fails to explicitly teach propagating the first request with the attached internationalization context from the server to an application associated with an application interface on a second server

DellaFera et al teaches control automatically passes to block 104 where the un-marshalled request-context is stored and passed along. More specifically, the request-context is stored in the server's thread context and a copy is passed to the server's local request manager. Control automatically passes to decision block 105 where it is determined if the server has fully serviced its current request (the request sent from its client) or if the server requires assistance from another server. If the server requires assistance then control passes to block 106 where an RPC is issued and the request-context is pulled from the server's context thread and marshalled into the outgoing call. In one embodiment, a marshalling routine is called when the RPC is issued; the marshalling routine pulls the request-context from the server's context thread and marshals it into the RPC (See col. 4, lines 60-67, col. 5, lines 6-36, 57-67 and col. 6, lines 1-24).

It would have been obvious to one with ordinary skill in the art at the time the invention was made to incorporate the teaching of DellaFera in the claimed invention of Zhou et al in order to uniquely identify, track and manage end-user requests as they propagate throughout the transaction processing system and to allow a server in the path of execution of the end-user request to access the standard input and output operation on the standard input and output of the end-user client (See col. 2, lines 64-67 and col. 3, lines 1-2).

b. As per claims 11 and 34, Zhou et al in view of DellaFera teaches the claimed invention as described above. Furthermore, Zhou et al teaches wherein processing the first request comprises providing the first request and internationalization context to an application to perform calculations using the internationalization context and return a result formatted according to the internationalization context (See page 6, paragraph [0074-0077]).

c. As per claims 12 and 35, Zhou et al in view of DellaFera teaches the claimed invention as described above. However, Zhou et al fails to explicitly teach sending the internationalization context from the server to at least one of the plurality of servers in the distributed computing environment.

DellaFera et al teaches sending the context from the server to at least one of the plurality of servers in the distributed computing environment (See col. 4, lines 60-67, col. 5, lines 6-36, 57-67 and col. 6, lines 1-24).

It would have been obvious to one with ordinary skill in the art at the time the invention was made to incorporate the teaching of DellaFera in the claimed invention of Zhou et al in order

to uniquely identify, track and manage end-user requests as they propagate throughout the transaction processing system and to allow a server in the path of execution of the end-user request to access the standard input and output operation on the standard input and output of the end-user client (See col. 2, lines 64-67 and col. 3, lines 1-2).

d. As per claims 13 and 36, Zhou et al in view of DellaFera teaches the claimed invention as described above. Furthermore, Zhou et al teaches wherein the internationalization context contains a country identifier (See page 6, paragraph [0077], *en_US*).

e. As per claims 14 and 37, Zhou et al in view of DellaFera teaches the claimed invention as described above. Furthermore, Zhou et al teaches wherein the internationalization context contains a language identifier (See page 6, paragraph [0077])

f. As per claims 17 and 40, Zhou et al in view of DellaFera teaches the claimed invention as described above. Zhou et al teaches wherein the locale specification teaches a country identifier and a language identifier (See page 6, paragraph [0077]).

g. As per claim 45, Zhou et al teaches receiving, at a first computer, a first request from a second computer, the first request including an internationalization context, wherein the internationalization context specifies geographically specific parameters set for the client computer (See page 3, paragraph [0033]; extracting the internationalization context from the first

request (See page, 6, paragraph [0074]); Zhou et al teaches fails to explicitly teach associating the internationalization context with a thread executing a second request, from the second computer, to invoke a remote procedure call at the first computer; generating a main body of a second request to invoke a second remote procedure call attaching the internationalization context to the second request; and propagating the second request with the attached internationalization context from the server to an application associated with an application interface on a second server.

DellaFera et al teaches control automatically passes to block 104 where the un-marshalled request-context is stored and passed along. More specifically, the request-context is stored in the server's thread context and a copy is passed to the server's local request manager. Control automatically passes to decision block 105 where it is determined if the server has fully serviced its current request (the request sent from its client) or if the server requires assistance from another server. If the server requires assistance then control passes to block 106 where an RPC is issued and the request-context is pulled from the server's context thread and marshalled into the outgoing call. In one embodiment, a marshalling routine is called when the RPC is issued; the marshalling routine pulls the request-context from the server's context thread and marshals it into the RPC (See col. 4, lines 60-67, col. 5, lines 6-36, 57-67 and col. 6, lines 1-24).

It would have been obvious to one with ordinary skill in the art at the time the invention was made to incorporate the teaching of DellaFera in the claimed invention of Zhou et al in order to uniquely identify, track and manage end-user requests as they propagate throughout the transaction processing system and to allow a server in the path of execution of the end-user request to access the standard input and output operation on the standard input and output of the

end-user client (See col. 2, lines 64-67 and col. 3, lines 1-2).

h. As per claim 47, Zhou et al in view of DellaFera et al teaches the claimed invention as described above. However, Zhou et al fails to teach sending a first main body of the first request to the thread.

DellaFera et al teaches sending a first main body of the first request to the thread (See col. 6, lines 3-13).

It would have been obvious to one with ordinary skill in the art at the time the invention was made to incorporate the teaching of DellaFera in the claimed invention of Zhou et al in order to uniquely identify, track and manage end-user requests as they propagate throughout the transaction processing system and to allow a server in the path of execution of the end-user request to access the standard input and output operation on the standard input and output of the end-user client (See col. 2, lines 64-67 and col. 3, lines 1-2).

i. As per claim 50, Zhou et al in view of DellaFera teaches the claimed invention as described above. However, Zhou et al fails to teach wherein the thread comprises a legacy application thread.

DellaFera et teaches wherein the thread comprises a legacy application thread (See col. 6, lines 5-29).

It would have been obvious to one with ordinary skill in the art at the time the invention was made to incorporate the teaching of DellaFera in the claimed invention of Zhou et al in order

to uniquely identify, track and manage end-user requests as they propagate throughout the transaction processing system and to allow a server in the path of execution of the end-user request to access the standard input and output operation on the standard input and output of the end-user client (See col. 2, lines 64-67 and col. 3, lines 1-2).

j. As per claim 51, Zhou et al in view of DellaFera teaches the claimed invention as described above. Furthermore, Zhou et al teaches wherein the internationalization component comprises culture sensitive information (See page 5, paragraph [0062]).

7. Claims 15-16, 18-20, 38-39, 41-42 and 46 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent Application No. 2002/0162093 to Zhou et al in view of U.S. patent Application No. 5,404,523 to DellaFera et al as applied to claims 10 and 33 above, and further in view of U.S. Patent Application No. 2002/0184308 to Levy et al.

a. As per claims 15 and 38, Zhou et al in view of DellaFera teaches the claimed invention as described above. However, Zhou et al in view of DellaFera fails to explicitly teach wherein the internationalization context contains a time zone identifier.

Levy et al teaches wherein the internationalization context contains a time zone identifier (See page 4, paragraph [0042]).

It would have been obvious to one with ordinary skill in the art at the time the invention was made to incorporate the teaching of Levy et al in the claimed invention of Zhou et al in view

of DellaFera in order to influence all date-time related operations (See page 4, paragraph [0042]).

b. As per claims 16, 39 and 46, Zhou et al in view of DellaFera teaches the claimed invention as described above. However, Zhou et al in view of DellaFera fails to explicitly teach wherein the internationalization context contains at least a locale specification and a time zone identifier.

Levy et al teaches wherein the internationalization context contains at least a locale specification and a time zone identifier (See page 4, paragraph [0042]).

It would have been obvious to one with ordinary skill in the art at the time the invention was made to incorporate the teaching of Levy et al in the claimed invention of Zhou et al in view of DellaFera in order to govern user interface, data presentation and influence all date-time related operations (See page 4, paragraph [0042]).

c. As per claims 18 and 41, Zhou et al in view of DellaFera teaches the claimed invention as described above. Furthermore, Zhou et al teaches wherein processing the first request according to a country identifier of the server if the internationalization context does not contain a country identifier.

Levy et al teaches processing the request according to a country identifier of the server if the internationalization context does not contains a country identifier (See page 9, paragraph [0099]).

It would have been obvious to one with ordinary skill in the art at the time the invention was made to incorporate the teaching of Zhou et al in view of DellaFera in the claimed invention of Levy et al in order to provide a mechanism that is dynamically sensitive to the locale and which accesses locale-specific information (See page 2, paragraph [0011]).

d. As per claims 19, Zhou et al in view of DellaFera teaches the claimed invention as described above. However, Zhou et al in view of DellaFera fails to teach wherein processing the first request according to a universal time zone identifier if the internationalization context does not contain a time zone identifier of the client.

Levy et al teaches processing the first request according to a universal time zone identifier if the internationalization context does not contain a time zone identifier of the client (See page 4, paragraph [0047, page 6, paragraph [0064] and page 9, paragraph [0099]).

It would have been obvious to one with ordinary skill in the art at the time the invention was made to incorporate the teaching of Levy et al in the claimed invention of Zhou et al in view of DellaFera in order to provide a mechanism that is dynamically sensitive to the locale and which accesses locale-specific information (See page 2, paragraph [0011]).

e. As per claims 20 and 42, Zhou et al in view of DellaFera teaches the claimed invention as described above. However, Zhou et al in view of DellaFera fails to teach processing the first

request according to a time zone identifier of the server if the internationalization context does not contain a time zone identifier.

Levy et al teaches processing the first request according to a time zone identifier of the server if the internationalization context does not contain a time zone identifier (See page 4, paragraph [0047, page 6, paragraph [0064] and page 9, paragraph [0099]).

It would have been obvious to one with ordinary skill in the art at the time the invention was made to incorporate the teaching of Levy et al in the claimed invention of Zhou et al in view of DellaFera in order to provide a mechanism that is dynamically sensitive to the locale and which accesses locale-specific information (See page 2, paragraph [0011]).

Conclusion

8. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Djenane M. Bayard whose telephone number is (571) 272-3878.

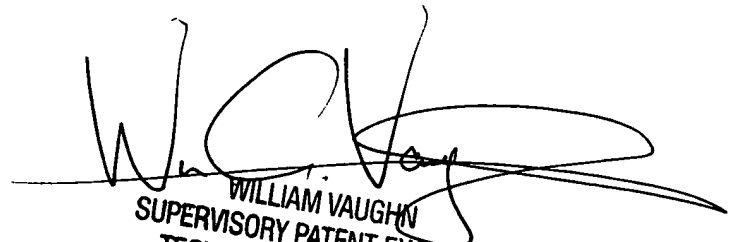
The examiner can normally be reached on Monday- Friday 5:30 AM- 3:00 PM..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rupal Dharia can be reached on (571) 272-3880. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Djenane Bayard

Patent Examiner



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